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Eaton 189900

Eaton Moeller® series PKZM0 Motor-protective circuit-breaker (-EA), 3p, Ir=1.6-2.5A, screw connection

General specifications

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| PRODUCT NAME | Eaton Moeller® series PKZM0 Motor-protective circuit-breaker |
| CATALOG NUMBER | 189900 |
| EAN | 4015081878963 |
| PRODUCT LENGTH/DEPTH | 76 mm |
| PRODUCT HEIGHT | 93 mm |
| PRODUCT WIDTH | 45 mm |
| PRODUCT WEIGHT | 0.287 kg |
| COMPLIANCES | RoHS conform CE Marked |
| MODEL CODE | PKZM0-2,5-EA |

Features & Functions

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| ACTUATOR TYPE | Turn button |
| FEATURES | Phase-failure sensitivity (according to IEC/EN 60947-4-1, VDE 0660 Part 102) |
| FUNCTIONS | Phase failure sensitive |
| NUMBER OF POLES | Three-pole |

General information

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| CONNECTION | Screw terminals |
| LIFESPAN, ELECTRICAL | 100,000 operations |
| LIFESPAN, MECHANICAL | 100,000 Operations |
| MOUNTING POSITION | Can be snapped on to IEC/EN 60715 top-hat rail with 7.5 or 15 mm height. |
| OPERATING FREQUENCY | 40 Operations/h |
| OVERVOLTAGE CATEGORY | III |
| POLLUTION DEGREE | 3 |
| PRODUCT CATEGORY | Motor protective circuit breaker |
| PRODUCT CATEGORY | Motor protective circuit breaker |
| PROTECTION | Finger and back-of-hand proof, Protection against direct contact when actuated from front (EN 50274) |
| RATED IMPULSE WITHSTAND VOLTAGE (UIMP) | 6000 V AC |
| SHOCK RESISTANCE | 25 g, Mechanical, according to IEC/EN 60068-2-27, Half-sinusoidal shock 10 ms |
| SUITABLE FOR | Branch circuit: Suitable for group installations, (UL/CSA) Also motors with efficiency class IE3 |
| TEMPERATURE COMPENSATION | -5 - 40 °C to IEC/EN 60947, VDE 0660 -25 - 55 °C, Operating range ≤ 0.25 %/K, residual error for T > 40° |

Climatic environmental conditions

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| AMBIENT OPERATING TEMPERATURE (ENCLOSED) - MIN | -25 °C |
| AMBIENT STORAGE TEMPERATURE - MIN | -40 °C |
| AMBIENT STORAGE TEMPERATURE - MAX | 80 °C |
| CLIMATIC PROOFING | Damp heat, constant, to IEC 60068-2-78 Damp heat, cyclic, to IEC 60068-2-30 |

Electrical rating

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| RATED FREQUENCY - MIN | 50 Hz |
| RATED FREQUENCY - MAX | 60 Hz |
| RATED OPERATIONAL POWER AT AC-3E, 220/230 V, 50 HZ | 0.37 kW |
| RATED OPERATIONAL POWER AT AC-3E, 380/400 V, 50 HZ | 0.75 kW |
| RATED OPERATIONAL VOLTAGE (UE) - MIN | 690 V |
| RATED OPERATIONAL VOLTAGE (UE) - MAX | 690 V |
| RATED UNINTERRUPTED CURRENT (IU) | 2.5 A |

Terminal capacities

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| TERMINAL CAPACITY (SOLID) | 1 x (1 - 6) mm ² 2 x (1 - 6) mm ² |
| TERMINAL CAPACITY (SOLID/STRANDED AWG) | 18 - 10, screw terminals 20 - 14, Push-in terminals |
| TERMINAL CAPACITY (FLEXIBLE WITH UNISOLATED FERRULE) | 1 x (1 - 6) mm ² , Screw terminals 2 x (1 - 6) mm ² , Screw terminals 1 x (1 - 2.5) mm ² , Push-in terminals 2 x (1 - 2.5) mm ² , Push-in terminals |
| TERMINAL CAPACITY (FLEXIBLE WITH ULTRASONIC WELDED CABLE END) | 1 x (1 - 6) mm ² , Screw terminals 2 x (1 - 6) mm ² , Screw terminals 1 x (1 - 2.5) mm ² , Push-in terminals 2 x (1 - 2.5) mm ² , Push-in terminals |
| STRIPPING LENGTH (MAIN CABLE) | 10 mm |
| TIGHTENING TORQUE | 1.7 Nm, Screw terminals, Main cable |

Short-circuit rating

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| RATED SHORT-CIRCUIT BREAKING CAPACITY ICU AT 400 V AC | 150 kA |
| RATED SHORT-CIRCUIT BREAKING CAPACITY ICS AT 400 V AC | 150 kA |
| RATED SHORT-CIRCUIT BREAKING CAPACITY ICU AT 440 V AC | 150 kA |
| RATED SHORT-CIRCUIT BREAKING CAPACITY ICS AT 440 V AC | 150 kA |
| RATED SHORT-CIRCUIT BREAKING CAPACITY ICU AT 500 V AC | 150 kA |
| RATED SHORT-CIRCUIT BREAKING CAPACITY ICS AT 500 V AC | 150 kA |
| RATED SHORT-CIRCUIT BREAKING CAPACITY ICU AT 690 V AC | 5 kA |
| RATED SHORT-CIRCUIT BREAKING CAPACITY ICS AT 690 V AC | 5 kA |

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| SHORT-CIRCUIT CURRENT RATING (GROUP PROTECTION) | 50 kA, 600 V High Fault, Fuse, SCCR (UL/CSA) with 600 A, 600 V High Fault, Fuse, SCCR (UL/CSA) 50 kA, 600 V High Fault, CB, SCCR (UL/CSA) with 600 A, 600 V High Fault, CB, SCCR (UL/CSA) |
| SHORT-CIRCUIT RELEASE | Basic device fixed 15.5 x Iu ± 20% tolerance 38.8 A, I _{rm} |

Switching capacity

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| SWITCHING CAPACITY | 2.5 A, AC-3 up to 690 V |
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Motor rating

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| ASSIGNED MOTOR POWER AT 230/240 V, 60 HZ, 1-PHASE | 0.17 HP |
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| ASSIGNED MOTOR POWER AT 230/240 V, 60 HZ, 3-PHASE | 0.5 HP |
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| ASSIGNED MOTOR POWER AT 460/480 V, 60 HZ, 3-PHASE | 1 HP |
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| ASSIGNED MOTOR POWER AT 575/600 V, 60 HZ, 3-PHASE | 1.5 HP |
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Trip blocks

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| OVERLOAD RELEASE CURRENT SETTING - MIN | 1.6 A |
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| OVERLOAD RELEASE CURRENT SETTING - MAX | 2.5 A |
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Design verification

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| EQUIPMENT HEAT DISSIPATION, CURRENT-DEPENDENT PVID | 5.16 W |
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| HEAT DISSIPATION CAPACITY PDISS | 0 W |
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| HEAT DISSIPATION PER POLE, CURRENT-DEPENDENT PVID | 1.7 W |
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| RATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN) | 2.5 A |
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| STATIC HEAT DISSIPATION, NON-CURRENT-DEPENDENT PVS | 0 W |
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Resurse

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| CHARACTERISTIC CURVE | eaton-manual-motor-starters-characteristic-characteristic-curve-008.eps |
| DECLARATIONS OF CONFORMITY | eaton-motor-protective-circuit-breaker-declaration-of-conformity-uk251169en.pdf |
| DESENE | eaton-manual-motor-starters-circuit-breaker-pkzm0-3d-drawing.eps eaton-manual-motor-starters-pkzm0-3d-drawing-008.eps |
| INSTRUCȚIUNI DE INSTALARE | IL034046ZU |
| SCHEME ELECTRICE | eaton-manual-motor-starters-transformer-pkzm0-wiring-diagram.eps |

DENUMIREA PROIECTULUI:

NUMĂRUL PROIECTULUI:

PREGĂTIT DE:

DATA:



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